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### ######

```
m1 = 0.27;% #####

m2 = 3.6; % ####

n = 9; % ##

d1 = 0.21; %####

d2 = 0.4; % ####

h1 = 0.22;% ###

g = 9.7947; % #####

HH1 = 0.40; % ####

L = 1.7; % #######

% ######

c = 0.5;

rho = 1.29;

S = 4 * pi * (d1/2)^2;

k = 1/2 *c*rho * S;

f_air = @(v)1/2 *c*rho * S * v.^2;
```

# #########

## ##########

### #########

```
function [v11,v22] = Crash(v1,v2,m1,m2)
    v11 = ((m1-m2)*v1+2*m2*v2)/(m1+m2);
    v22 = ((m2-m1)*v2+2*m1*v1)/(m1+m2);
end
```

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